

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

**PATENT APPLICATION**

Inventor(s): **Young-Kai Chen**  
**Andreas Leven**

Case: **30-4**

Serial No.: **10/674722**

Filing Date: **September 30, 2003**

Examiner: Group Art Unit:

Title: **High Speed Modulation Of Optical Subcarriers**

**COMMISSIONER FOR PATENTS**  
**P.O. BOX 1450**  
**ALEXANDRIA, VA 22313-1450**

**SIR:**

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.97(b)**

In accordance with 37 CFR 1.97(b), the enclosed Information Disclosure Statement, with attached reference(s), is submitted for consideration in the above-identified application.

**NO FEE IS REQUIRED**

In the event of any non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Lucent Technologies Deposit Account No. 12-2325** as required to correct the error.

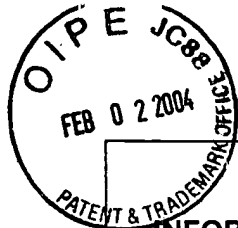
Respectfully,

**John F. McCabe, Attorney**  
**Reg. No. 42854**  
**908-582-6866**

Date: Jan. 27, 2004

**Docket Administrator (Room 3J-219)**  
**Lucent Technologies Inc.**  
**101 Crawfords Corner Road**  
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| <b>INFORMATION DISCLOSURE STATEMENT</b> | Case Name.   | Y. Chen 30-4       |
|   | Serial No.   | 10/674722          |
|   | Applicant:   | Y. Chen, et al.    |
|   | Filing Date: | September 30, 2003 |
|   | Group:       |                    |

**U.S. PATENT DOCUMENTS**

| *Examiner Initial |    | Document Number | Date | Name      | Class | Subclass | Filing Date |
|-------------------|----|-----------------|------|-----------|-------|----------|-------------|
|                   | AA | 10/443,328      |      | A. Leven  |       |          | 5/22/03     |
|                   | AB | 10/133,469      |      | Y.K. Chen |       |          | 4/26/02     |

**FOREIGN PATENT DOCUMENTS**

|  |  | Document Number | Date | Country | Class | Subclass | Translation |
|--|--|-----------------|------|---------|-------|----------|-------------|
|  |  |                 |      |         |       |          |             |

**OTHER (including Author, Title, Date, Pertinent Pages, etc.)**

|  |    |  |
|--|----|--|
|  | AC | Jemison, W.D., et al., "Microwave Photonic Vector Modulator for High-Speed Wireless Digital Communications," IEEE Microwave and Wireless Components Letters, Vol. 12, No. 4, pp. 125-127, April 2002.        |
|  | AD | McPherson, D.S., et al., "Vector Modulator for W-Band Software Radar Techniques," IEEE Transactions on Microwave Theory and Techniques, Vol. 49, No. 8, pp. 1451-1461, August 2001.                          |
|  | AE | Chandramouli, S., et al., "Direct Carrier Modulation for Wireless Digital Communications Using an Improved Microwave-Photonic Vector Modulator (MPVM) Approach," IEEE MTT-S Digest, pp. 1293-1296, May 2002. |
|  | AF | Leven, A., et al., "Microwave Photonic Vector Modulator," Lasers and Electro-Optics Society, 2003. LEOS 2003, the 16 <sup>th</sup> Annual Meeting of the IEEE, Vol. 2, pp. 935-936, 2003.                    |
|  | AG | Walker, R.G., "High-Speed III-V Semiconductor Intensity Modulators," IEEE Journal of Quantum Electronics, Vol. 27, No. 3, pp. 654-667, March 1991.   |
|  | AH | Leuthold, J., et al., "Multimode Interference Couplers with Tunable Power Splitting Ratios," Journal of Lightwave Technology, Vol. 19, No. 5, pp. 700-707, May 2001.   |
|  | AI | Tucker, R.s., et al., "Optical Time-Division Multiplexing For Very High Bit-Rate Transmission," Journal of Lightwave Technology, Vol. 6, No. 11, pp. 1737-1749, November 1988.                               |

\*\*\*References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

\*\*\*Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

|                 |                        |
|-----------------|------------------------|
| <b>EXAMINER</b> | <b>DATE CONSIDERED</b> |
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\***Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant